

HOTLINE: Effective November 16, 2020

New Test	3003034	Bupropion and Metabolite, Serum or Plasma	BUPRO SP
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Methodology: Quantitative Liquid Chromatography-Tandem Mass Spectrometry
Performed: Monday
Reported: 8 days

Specimen Required: Patient Prep: Timing of specimen collection: Predose (trough) draw - At steady state concentration.
Collect: Plain red. Also acceptable: Lavender (K₂ or K₃EDTA), pink (K₂EDTA), green (Heparin) or gray (Potassium oxalate or Sodium Fluoride).
Specimen Preparation: Separate serum or plasma from cells ASAP or within 2 hours of collection. Transfer 2 mL serum or plasma to an ARUP Standard Transport Tube. (Min: 0.5 mL)
Storage/Transport Temperature: CRITICAL FROZEN. Separate specimens must be submitted when multiple tests are ordered
Unacceptable Conditions: Whole blood. Gel separator tubes, light blue (citrate), or yellow (SPS or ACD solution).
Stability (collection to initiation of testing): After separation from cells: Ambient: Unacceptable; Refrigerated: Unacceptable; Frozen: 14 days

Reference Interval:

	Bupropion	Hydroxybupropion
Therapeutic Range	10-100 ng/mL	850-1500 ng/mL
Toxic Level	Greater than or equal to 400 ng/mL	Greater than or equal to 2000 ng/mL

Interpretive Data:

Bupropion is an antidepressant drug indicated for the treatment of major depressive disorder. The drug is also used as treatment for smoking cessation. The therapeutic range is based on serum predose (trough) draw at steady-state concentration. Bupropion is primarily metabolized to hydroxybupropion, which has about 50 percent of the activity of the parent drug. The pharmacokinetics of bupropion and metabolite are influenced by drug-drug interactions that affect CYP2B6 metabolism. Patients with renal or hepatic impairment may require a dose reduction. Adverse effects may include seizures, hypertension, nausea, vomiting, neuropsychiatric and cardiac abnormalities.

See Compliance Statement B: www.aruplab.com/CS

CPT Code(s): 80338 (Alt code: G0480)

New York DOH Approved.

HOTLINE NOTE: Refer to the Test Mix Addendum for interface build information.